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Yahoo! Inc. c/o DARBY & DARBY P.C. P.O. BOX 770 Church Street Station NEW YORK, NY 10008-0770			EXAMINER POPHAM, JEFFREY D	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/767,004	<b>Applicant(s)</b> CUI ET AL.	
	<b>Examiner</b> JEFFREY D. POPHAM	<b>Art Unit</b> 2437	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 February 2009.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7,9-32 and 34-45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7,9-32 and 34-45 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

***Remarks***

Claims 1-7, 9-32, and 34-45 are pending.

***Response to Arguments***

1. Applicant's arguments filed 2/9/2009 have been fully considered but they are not persuasive.

Applicant argues that none of Aura, Buhle, or Jamtgaard teach or suggest "receiving...from the mobile device...a gateway group identifier for a carrier gateway that is associated with the mobile device request, as recited by at least claim 1." Claim 1, however, does not recite that the gateway group identifier is received from the mobile device. The entire limitation in question reads "receiving a request from the mobile device, wherein the request includes associated information and further receiving a gateway group identifier for a carrier gateway that is associated with the mobile device request". One will see here that the gateway group identifier is not received in the request and need not be received from the mobile device. This is further clarified in other independent claims, such as claim 18, for example. The pertinent limitation of claim 18 reads "sending a request to the server for content, wherein the request includes an identifier associated with a user agent, and wherein a carrier gateway associated with the request further provides a gateway group identifier". As is clear in this limitation, the gateway provides the gateway group identifier, and not the mobile device. While claim 1 is broader in that it does state the entity that provides the

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gateway group identifier, claim 1 in no way claims that the mobile device sends the gateway group identifier in any manner.

Buhle discusses gateway group identifiers used in determining if the gateway is trustable above a defined level. This is found in the authentication of the middle-tier servers, and the determination of trust level based on the combination of the client's trust level and the middle-tier server's trust level. Column 5, lines 25-36, for example, describes the middle-tier server (in this case referred to as application server 204, as seen in figure 2) being authenticated by use of credentials, such as X.509 certificates, tickets such as those generated in Kerberos, username/password combinations, or the like, which clearly correlate to and/or include gateway group identifiers (username of the application or middle-tier server would correlate to the gateway group identifier, while a certificate would include the gateway group identifier used to identify and authenticate the application or middle-tier server). Column 6, lines 1-19 discuss how the particular combination of client and middle-tier server defines the level of trust given to the connection. If the client is more trusted than a middle-tier server, the client will be given additional trust when connecting to the data server directly, and less trust when connecting to the data server through the middle-tier server. Furthermore, when the middle-tier server is more trusted than the client, the client may obtain a higher level of trust by going through the middle-tier server as opposed to directly connecting to the data server, thereby obtaining additional privileges or roles. As one can see from the above, the middle-tier server authentication/identification parameters clearly correspond to and/or

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include a gateway group identifier in determining if a gateway is trustable above a defined level.

Applicant also argues that the references fail to teach or suggest “automatically determining at least one level of trust from a plurality of different levels of trust based, in part, on the associated information...” where the associated information is received in a request from the mobile device. As has been explained before, Aura teaches levels of trust that may be determined based on associated information sent with a request (e.g. the credential sent with the request, which could define the level of trust for credential authenticated access, column 5, lines 58-64). The credential can specify a limited level of trust, wherein, if the mobile node undergoes full authentication, a greater level of trust may be granted. The teachings of Jamtgaard with respect to this argument were fully discussed in the final office action dated 5/28/2008, and are not reiterated here, as no further arguments have been provided.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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2. Claims 1, 3, 4, 9-12, 14, 15, 26-30, 32, 35-38, and 40-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aura (U.S. Patent 6,947,725) in view of Jamtgaard (U.S. Patent 6,430,624) and Buhle (U.S. Patent 6,286,104).

Regarding Claim 1,

Aura discloses a method of managing a communication with a mobile device over a network, comprising:

Receiving a request from the mobile device, wherein the request includes associated information (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23) and further receiving a gateway group identifier for a carrier gateway that is associated with the mobile device request (Column 4, lines 32-65; Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

Automatically determining at least one level of trust from a plurality of different levels of trust based, in part, on the associated information (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23), and based on:

Using the associated information, determining is a trusted mobile device identifier associated with the mobile device is received (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

If the trusted mobile device identifier associated with the mobile device is received, then determining at least a first level of

trust associated with the mobile device (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

If the mobile device is enabled to access the Internet, then determining at least a third level of trust associated with the mobile device (Column 3, line 31 to Column 4, line 11; Column 7, line 42 to Column 8, line 23; and Column 9, lines 4-19);

Determining at least one device signature for the mobile device based on the at least one level of trust from the plurality of different levels of trust, and independent of user authentication, the at least one device signature being usable to enable to mobile device to perform an action over the network associated with the request (Column 7, line 42 to Column 8, line 23; and Column 9, line 43 to Column 10, line 27);

But does not explicitly disclose determining if the mobile device is enabled to accept a cookie and determining at least a second level of trust based on such determination, determining if the mobile device is enabled to interact with a URL and determining at least a third level of trust based on such determination, or determining if the gateway is trustable above a defined level using the gateway group identifier.

Jamtgaard, however, discloses using associated information of a request, determining a capability of the mobile device, including if the mobile device is enabled to accept a cookie and/or

is enabled to interact with a URL (Column 5, lines 27-53; Column 8, line 4 to Column 9, line 22; and Column 14, lines 4-20);

If the mobile device is enabled to accept a cookie, then determining at least a second level of trust associated with the mobile device (Column 5, lines 27-53; Column 8, line 4 to Column 9, line 22; and Column 14, lines 4-20); and

If the mobile device is enabled to interact with a URL, then determining at least a third level of trust associated with the mobile device (Column 5, lines 27-53; Column 8, line 4 to Column 9, line 22; and Column 14, lines 4-20). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability determination and translation system of Jamtgaard into the mobile authentication system of Aura in order to allow the system to determine device capabilities and to translate data accordingly so that the device can receive properly formatted data that the device can understand, while allowing capabilities that the device does not have to be run by a proxy system, thereby providing use of the capabilities even when the device itself cannot perform such capabilities.

Buhle, however, discloses receiving a gateway group identifier for a gateway that is associated with the mobile device request; using the gateway group identifier to determine if the gateway is trustable above a defined level; and determining levels

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of trust based on both a device ID and whether the gateway is trustable above a defined level (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the authentication and authorization system of Buhle into the mobile authentication system of Aura as modified by Jamtgaard in order to provide a highly dynamic system of roles and permissions such that a device connecting directly to a data server will have one set of roles/permissions and when the device connects through certain middle-tier servers, the roles and permissions change based on each server through which the connection is made, thereby providing a high degree of security, auditing, and dynamic system behavior based upon how the user connects to the system.

Regarding Claim 3,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses that the associated information comprises at least one of a device identifier, user agent information, and an indication that the mobile device is enabled to accept a cookie (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 4,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 3, in addition, Aura discloses that the associated information further comprises at least one of a gateway group identifier and a subscription identifier (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 9,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses that the mobile device identifier is at least one of a MIN, ESN, application serial number, or a mobile telephone number (Column 13, line 64 to Column 15, line 6).

Regarding Claim 10,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses that determining at least one device signature further comprises if the first level of trust is determined, determining a first tier device signature based, in part, on a hash of at least one of a subscription identifier, the gateway group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 11,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses that determining at

least one device signature further comprises if the second level of trust is determined, determining a second tier device signature based, in part, on a hash of at least one of a cookie, the gateway group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 12,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses that determining at least one device signature further comprises if the third level of trust is determined, determining a third tier device signature based, in part, on a hash of at least one of the gateway group identifier, a user agent identifier, a server identifier, a process identifier, a random number, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 14,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses that determining at least one device signature further comprises employing a hash function selected from at least one of a message digest, SHA, DES, 3DES, HAVAL, RIPEMD, and Tiger hash function (Column 4, lines 58-62).

Regarding Claim 15,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses expiring the at least one device signature based, in part, on a predetermined period of time associated with each of the at least one device signature (Column 9, line 43 to Column 10, line 27).

Regarding Claim 26,

Aura discloses a server for managing a communication with a mobile device over a network comprising:

A transceiver for receiving a request from the mobile device and for sending at least one device signature to the mobile device (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23); and

A transcoder that is configured to perform actions including:

Receiving the request from the mobile device, wherein the request includes associated information (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23);

Receiving a gateway group identifier for a carrier gateway (Column 4, lines 32-65; Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

Automatically determining at least one level of trust from a plurality of different levels of trust based, in part, on the associated information (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23) and further based on:

If a trusted mobile device identifier associated with the mobile device is received, then determining at least a first level of trust associated with the mobile device (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

If the mobile device is enabled to access the Internet, then determining at least a third level of trust associated with the mobile device (Column 3, line 31 to Column 4, line 11; Column 7, line 42 to Column 8, line 23; and Column 9, lines 4-19); and

Determining the at least one device signature for the mobile device based on the at least one level of trust of the plurality of different trust levels, wherein the at least one device signature is independent of user authentication (Column 7, line 42 to Column 8, line 23; and Column 9, line 43 to Column 10, line 27);

But does not explicitly disclose if the mobile device is enabled to accept a cookie, then determining at least a second level of trust associated with the mobile device; if the mobile device is enabled to interact with a URL, then determining at least a third level of trust associated with the mobile device; receiving the gateway group identifier from the carrier gateway, and determining if the carrier gateway is trustable.

Jamtgaard, however, discloses if the mobile device is enabled to accept a cookie, then determining at least a second level of trust associated with the mobile device; and determining

that the mobile device is enabled to interact with a URL, then determining at least a third level of trust associated with the mobile device (Column 5, lines 27-53; Column 8, line 4 to Column 9, line 22; and Column 14, lines 4-20). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability determination and translation system of Jamtgaard into the mobile authentication system of Aura in order to allow the system to determine device capabilities and to translate data accordingly so that the device can receive properly formatted data that the device can understand, while allowing capabilities that the device does not have to be run by a proxy system, thereby providing use of the capabilities even when the device itself cannot perform such capabilities.

Buhle, however, discloses receiving, from a gateway associated with a request from a mobile device, a gateway group identifier for the gateway and determining levels of trust based on both a device ID and whether the gateway is determined to be trustable (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the authentication and authorization system of Buhle into the mobile authentication system of Aura as modified by Jamtgaard in order to provide a highly dynamic system of roles and

permissions such that a device connecting directly to a data server will have one set of roles/permissions and when the device connects through certain middle-tier servers, the roles and permissions change based on each server through which the connection is made, thereby providing a high degree of security, auditing, and dynamic system behavior based upon how the user connects to the system.

Regarding Claim 27,

Aura as modified by Jamtgaard and Buhle discloses the server of claim 26, in addition, Aura discloses that the transcoder is configured to perform actions comprising receiving gateway information, wherein the gateway information is associated with a carrier gateway for the mobile device; and determining the at least one level of trust based, in part, on the associated information and the gateway information (Column 4, lines 32-65; Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 28,

Aura as modified by Jamtgaard and Buhle discloses the server of claim 26, in addition, Aura discloses that determining the at least one device signature comprises if the first level of trust is determined, determining a first tier device signature based, in part, on a hash of at least one of a subscription identifier, the gateway

group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 29,

Aura as modified by Jamtgaard and Buhle discloses the server of claim 26, in addition, Aura discloses that determining the at least one device signature further comprises if the second level of trust is determined, determining a second tier device signature based, in part, on a hash of at least one of a cookie, the gateway group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 30,

Aura as modified by Jamtgaard and Buhle discloses the server of claim 26, in addition, Aura discloses that determining the at least one device signature further comprises if the third level of trust is determined, determining a third tier device signature based, in part, on a hash of at least one of the gateway group identifier, a user agent identifier, a server identifier, a process identifier, a random number, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 32,

Aura as modified by Jamtgaard and Buhle discloses the server of claim 26, in addition, Aura discloses that determining the at least one level of trust further comprises determining the second level of trust based at least one of the gateway identifier, and a user agent (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 35,

Aura discloses a system for managing a communication with a mobile device over a network comprising:

The mobile device configured to provide information associated with the mobile device (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23); and

A server, coupled to a carrier gateway, that is configured to receive the associated information and to perform actions (Column 4, lines 32-65; Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23), including:

Automatically determining at least two different levels of trust from a plurality of different levels of trust based, in part, on the associated information (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23), wherein the at least two different levels of trust are based on:

If a trusted mobile device identifier associated with the mobile device is received, then determining at least a first level of

trust associated with the mobile device (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);  
and

Determining another level of trust associated with the mobile device (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23); and

Initially determining at least two different device signatures for the mobile device each of the two device signatures being based on a different one of the at least two different levels of trust, wherein the at least two device signatures are each determined independent of user authentication (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23);

But may not explicitly disclose determining if the mobile device is enabled with a defined operational capability, and determining if a gateway group identifier associated with a carrier gateway is trustable.

Jamtgaard, however, discloses determining if the mobile device is enabled with a defined operational capability and if the mobile device is so enabled, then determining another level of trust associated with the mobile device (Column 5, lines 27-53; Column 8, line 4 to Column 9, line 22; and Column 14, lines 4-20). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability determination and

translation system of Jamtgaard into the mobile authentication system of Aura in order to allow the system to determine device capabilities and to translate data accordingly so that the device can receive properly formatted data that the device can understand, while allowing capabilities that the device does not have to be run by a proxy system, thereby providing use of the capabilities even when the device itself cannot perform such capabilities.

Buhle, however, discloses determining levels of trust based on both a device ID and whether a gateway group identifier associated with a carrier gateway is determined to be trustable (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the authentication and authorization system of Buhle into the mobile authentication system of Aura as modified by Jamtgaard in order to provide a highly dynamic system of roles and permissions such that a device connecting directly to a data server will have one set of roles/permissions and when the device connects through certain middle-tier servers, the roles and permissions change based on each server through which the connection is made, thereby providing a high degree of security, auditing, and dynamic system behavior based upon how the user connects to the system.

Regarding Claim 36,

Aura as modified by Jamtgaard and Buhle discloses the system of claim 35, in addition, Aura discloses that determining the at least two device signatures further comprises determining a tier 1 device signature based, in part, on a hash of at least one of a subscription identifier, the gateway group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 37,

Aura as modified by Jamtgaard and Buhle discloses the system of claim 35, in addition, Aura discloses that determining the at least two device signatures further comprises determining a tier 2 device signature based, in part, on a hash of at least one of a cookie, the gateway group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 38,

Aura as modified by Jamtgaard and Buhle discloses the system of claim 35, in addition, Aura discloses that determining the at least two device signatures further comprises determining a tier 3 device signature based, in part, on a hash of at least one of the gateway group identifier, a user agent identifier, a server identifier, a process identifier, a random number, and a time stamp (Column

9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 40,

Aura as modified by Jamtgaard and Buhle discloses the system of claim 35, in addition, Aura discloses the carrier gateway, coupled to the mobile device, that is configured to receive the associated information, and provide the associated information and gateway information related to the carrier gateway (Column 4, lines 32-65; and Column 13, line 64 to Column 15, line 6); and Buhle discloses that the gateway is coupled to the mobile device and is configured to receive associated information and provide the associated information and gateway information, including the gateway group identifier, related to the gateway (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52).

Regarding Claim 41,

Aura discloses a computer readable storage medium for communicating with a mobile device, the computer readable storage medium having computer executable instructions stored thereon that when installed into a computing device enable the computing device to perform actions, comprising:

Receiving a request from the mobile device, wherein the request includes associated information (Column 5, line 58 to

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Column 6, line 13; and Column 7, line 42 to Column 8, line 23) and further receiving a gateway group identifier for a carrier gateway that is associated with the mobile device request (Column 4, lines 32-65; Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

Sending at least one device signature to the mobile device based on at least one level of trust determined from a plurality of different levels of trust that is determined, in part, using the associated information (Column 7, line 42 to Column 8, line 23; and Column 9, line 43 to Column 10, line 27), wherein the at least one level of trust is based on:

If a trusted mobile device identifier associated with the mobile device is received, then determining at least a first level of trust associated with the mobile device (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6); and

Determining another level of trust associated with the mobile device, and wherein the at least one device signature is determined independent of user authentication (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23);

But may not explicitly disclose determining if the mobile device is enabled with a defined operational capability and

determining if the gateway is trustable based on the gateway group identifier above a threshold.

Jamtgaard, however, discloses determining if the mobile device is enabled with a defined operational capability and if the mobile device is so enabled, then determining another level of trust associated with the mobile device (Column 5, lines 27-53; Column 8, line 4 to Column 9, line 22; and Column 14, lines 4-20). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability determination and translation system of Jamtgaard into the mobile authentication system of Aura in order to allow the system to determine device capabilities and to translate data accordingly so that the device can receive properly formatted data that the device can understand, while allowing capabilities that the device does not have to be run by a proxy system, thereby providing use of the capabilities even when the device itself cannot perform such capabilities.

Buhle, however, discloses receiving a gateway group identifier for a gateway that is associated with the mobile device request; using the gateway group identifier to determine if the gateway is trustable above a threshold; and determining levels of trust based on both a device ID and whether the gateway is trustable above a defined level (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52). It would

have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the authentication and authorization system of Buhle into the mobile authentication system of Aura as modified by Jamtgaard in order to provide a highly dynamic system of roles and permissions such that a device connecting directly to a data server will have one set of roles/permissions and when the device connects through certain middle-tier servers, the roles and permissions change based on each server through which the connection is made, thereby providing a high degree of security, auditing, and dynamic system behavior based upon how the user connects to the system.

Regarding Claim 42,

Aura as modified by Jamtgaard and Buhle discloses the computer readable storage medium of claim 41, in addition, Aura discloses that determining the at least one device signature further comprises if the first level of trust is determined, determining a first tier device signature based, in part, on a hash of at least one of a subscription identifier, the gateway group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 43,

Aura as modified by Jamtgaard and Buhle discloses the computer readable storage medium of claim 41, in addition, Aura

discloses that determining the at least one device signature further comprises if the other level of trust is determined, determining another device signature based, in part, on a hash of at least one of a cookie, the gateway group identifier, a user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 44,

Aura as modified by Jamtgaard and Buhle discloses the computer readable storage medium of claim 41, in addition, Aura discloses that determining the at least one device signature further comprises if the other level of trust is determined, determining another device signature based, in part, on a hash of at least one of the gateway group identifier, a user agent identifier, a server identifier, a process identifier, a random number, and a time (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6)

Regarding Claim 45,

Aura discloses an apparatus for communicating with a mobile device comprising:

A means for receiving a request from a mobile device, wherein the request includes associated information (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23);

Means for receiving a gateway group identifier associated with a carrier gateway for the request from the mobile device (Column 4, lines 32-65; Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

A means for automatically determining a plurality of different levels of trust based, in part, on the associated information (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23); and

A means for determining a plurality of different device signatures for the mobile device based, in part, on the determined plurality of different levels of trust, and independent of user authentication (Column 7, line 42 to Column 8, line 23; and Column 9, line 43 to Column 10, line 27);

But may not explicitly disclose that the associated information indicates a capability of the mobile device, that at least one of the different levels of trust is based on an operational capability of the mobile device, and determining if the gateway is trustable above a threshold.

Jamtgaard, however, discloses that the associated information indicates a capability of the mobile device and that at least one of the different levels of trust is based on an operational capability of the mobile device (Column 5, lines 27-53; Column 8, line 4 to Column 9, line 22; and Column 14, lines 4-20). It would

have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability determination and translation system of Jamtgaard into the mobile authentication system of Aura in order to allow the system to determine device capabilities and to translate data accordingly so that the device can receive properly formatted data that the device can understand, while allowing capabilities that the device does not have to be run by a proxy system, thereby providing use of the capabilities even when the device itself cannot perform such capabilities.

Buhle, however, discloses means for receiving a gateway group identifier associated with a carrier gateway for the request from the mobile device; using the gateway group identifier to determine if the gateway is trustable above a threshold; and determining levels of trust based on both a device ID and whether the gateway is trustable above a threshold based on the gateway group identifier (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the authentication and authorization system of Buhle into the mobile authentication system of Aura as modified by Jamtgaard in order to provide a highly dynamic system of roles and permissions such that a device connecting directly to a data server will have one set of roles/permissions and when the device

connects through certain middle-tier servers, the roles and permissions change based on each server through which the connection is made, thereby providing a high degree of security, auditing, and dynamic system behavior based upon how the user connects to the system.

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aura in view of Jamtgaard and Buhle, further in view of Bryson (U.S. Patent Application Publication 2004/0185777).

Aura as modified by Jamtgaard and Buhle does not explicitly disclose that the gateway group identifier is obtained from a header of a network packet associated with the carrier gateway.

Bryson, however, discloses that the gateway group identifier is obtained from a header of a network packet associated with the carrier gateway (Paragraph 91). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the portable wireless gateway system of Bryson into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to allow devices of a wide variety of communication protocols to connect to and use the system, while allowing for moving access points such that users can spontaneously provision connectivity in many locations such as planes, trains, ships, and buses without having to preplan for their connectivity needs.

4. Claims 5, 18, 20-22, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aura in view of Jamtgaard and Buhle, further in view of Wilf (U.S. Patent 6,496,824).

Regarding Claim 5,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses automatically determining a second device signature based on a second level of trust, wherein the second device signature comprises a hash of at least a gateway group identifier (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6); but does not explicitly disclose that the signature hash also comprises a cookie and a user agent identifier obtainable from the associated information.

Wilf, however, discloses that the signature hash also comprises at least a cookie and a user agent identifier obtainable from the associated information (Column 4, lines 5-35). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the session management techniques of Wilf into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to provide a stronger signature, based upon more client and/or gateway specific

information, thus increasing security of the signature and making it harder to forge.

Regarding Claim 18,

Aura discloses a client adapted for a mobile device to communicate with a server over a network, the client being configured to perform actions comprising:

Sending a request to the server for content, wherein the request includes an identifier associated with the device (Column 5, line 58 to Column 6, line 13; Column 7, line 42 to Column 8, line 23; and Column 13, line 64 to Column 15, line 6); and wherein the server also receives a gateway group identifier associated with a carrier gateway (Column 4, lines 32-65; Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

Receiving at least one device signature associated with the mobile device, wherein the at least one device signature is based on at least one level of trust determined from a plurality of different trust levels, and is independent of user authentication (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23), the at least one level of trust being determined based on:

Determining at least a default level of trust (Column 3, line 31 to Column 4, line 11; Column 7, line 42 to Column 8, line 23; and Column 9, lines 4-19);

If a trusted mobile device identifier associated with the mobile device is received, then determining at least a first level of trust associated with the mobile device (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6); and

If the mobile device is enabled to access the Internet, then determining at least a third level of trust associated with the mobile device (Column 3, line 31 to Column 4, line 11; Column 7, line 42 to Column 8, line 23; and Column 9, lines 4-19); and

But may not explicitly disclose if the mobile device is enabled to accept a cookie, then determining at least a second level of trust associated with the mobile device, if the mobile device is enabled to interact with a URL, then determining at least a third level of trust associated with the mobile device; that the identifier associated with the device comprises an identifier associated with a user agent, and determining if the gateway is trustable based on the gateway group identifier.

Jamtgaard, however, discloses if the mobile device is enabled to accept a cookie, then determining at least a second level of trust associated with the mobile device; and determining that the mobile device is enabled to interact with a URL, then determining at least a third level of trust associated with the mobile device (Column 5, lines 27-53; Column 8, line 4 to Column 9, line

22; and Column 14, lines 4-20). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability determination and translation system of Jamtgaard into the mobile authentication system of Aura in order to allow the system to determine device capabilities and to translate data accordingly so that the device can receive properly formatted data that the device can understand, while allowing capabilities that the device does not have to be run by a proxy system, thereby providing use of the capabilities even when the device itself cannot perform such capabilities.

Buhle, however, discloses that a gateway associated with the request further provides a gateway group identifier; determining if the gateway is trustable based on the gateway group identifier;; and determining levels of trust based on both a device ID and whether the gateway is trustable (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the authentication and authorization system of Buhle into the mobile authentication system of Aura as modified by Jamtgaard in order to provide a highly dynamic system of roles and permissions such that a device connecting directly to a data server will have one set of roles/permissions and when the device connects through certain

middle-tier servers, the roles and permissions change based on each server through which the connection is made, thereby providing a high degree of security, auditing, and dynamic system behavior based upon how the user connects to the system.

Wilf, however, discloses that the identifier associated with the device comprises an identifier associated with a user agent (Column 4, lines 5-35). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the session management techniques of Wilf into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to provide a stronger signature, based upon more client and/or gateway specific information, thus increasing security of the signature and making it harder to forge.

Regarding Claim 20,

Aura as modified by Jamtgaard, Buhle, and Wilf discloses the client of claim 18, in addition, Aura discloses that receiving the at least one device signature further comprises if the at least one device signature is based on the first level of trust, receiving a first tier device signature based, in part, on a hash of at least one of a subscription identifier, the gateway group identifier, the user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 21,

Aura as modified by Jamtgaard, Buhle, and Wilf discloses the client of claim 18, in addition, Aura discloses that receiving the at least one device signature further comprises if the at least one device signature is based on the second level of trust, receiving a second tier device signature based, in part, on a hash of at least one of a cookie, the gateway group identifier, the user agent identifier, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 22,

Aura as modified by Jamtgaard, Buhle, and Wilf discloses the client of claim 18, in addition, Aura discloses that receiving the at least one device signature further comprises if the at least one device signature is based on the third level of trust, receiving a third tier device signature based, in part, on a hash of at least one of the gateway group identifier, a user agent identifier, a server identifier, a process identifier, a random number, and a time stamp (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6).

Regarding Claim 24,

Aura as modified by Jamtgaard, Buhle, and Wilf discloses the client of claim 18, in addition, Jamtgaard discloses that receiving the at least one device signature further comprises, if the request indicates the mobile device is enabled to accept a cookie,

associating the cookie with the at least one device signature  
(Column 5, lines 27-53; and Column 8, line 4 to Column 9, line 22);  
and Wilf discloses associating the cookie with the at least one  
device signature (Column 4, lines 5-35).

5. Claims 6, 7, 16, 17, 31, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aura in view of Jamtgaard and Buhle, further in view of Laraki (U.S. Patent Application Publication 2003/0233329).

Regarding Claim 6,

Aura as modified by Jamtgaard and Buhle does not explicitly disclose that the associated information further comprises a subscription identifier associated with the mobile device that is based on at least one of a MIN, ESN, and application serial number.

Laraki, however, discloses that the associated information further comprises a subscription identifier associated with the mobile device that is based on at least one of a MIN, ESN, and application serial number (Paragraph 53). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the mobile subscription services of Laraki into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to efficiently provide mobile users with access to content based upon subscriptions and affiliations in

which a user will not be charged twice for content that was previously paid for, but could not be downloaded prior to expiration of the subscription and is downloaded after expiration, thus improving reliability of the system.

Regarding Claim 7,

Aura as modified by Jamtgaard and Buhle discloses the method of claim 1, in addition, Aura discloses determining the level of trust of the mobile device identifier and trusting the mobile device if the identifier is so trusted (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6); and Buhle discloses determining a level of trust of the carrier gateway associated with the mobile device based on a received device identifier and the gateway group identifier (Column 5, line 25 to Column 6, line 25; Column 6, lines 61-67; and Column 8, lines 20-52);

But may not explicitly disclose using a received subscription identifier in the determining of a level of trust, trusting the mobile device identifier based on such carrier trust, and inhibiting the determination of a level of trust associated with the device if the mobile device identifier is not trusted in this manner.

Laraki, however, discloses determining a level of trust of a carrier associated with the mobile device based on at least one of a received subscription identifier and a gateway group identifier,

trusting the mobile device identifier based on such carrier trust, and inhibiting the determination of a level of trust associated with the device if the mobile device identifier is not trusted in this manner (Paragraphs 33-37 and 46-72). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the mobile subscription services of Laraki into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to efficiently provide mobile users with access to content based upon subscriptions and affiliations in which a user will not be charged twice for content that was previously paid for, but could not be downloaded prior to expiration of the subscription and is downloaded after expiration, thus improving reliability of the system.

Regarding Claim 16,

Aura as modified by Jamtgaard and Buhle does not explicitly disclose if the at least one device signature has expired, determining if the expired device signature is to be rolled over, and if the expired device signature is to be rolled over, extending a validity period associated with the expired device signature.

Laraki, however, discloses if the at least one device signature has expired, determining if the expired device signature is to be rolled over, and if the expired device signature is to be rolled over, extending a validity period associated with the expired device

signature (Paragraphs 45 and 66). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the mobile subscription services of Laraki into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to efficiently provide mobile users with access to content based upon subscriptions and affiliations in which a user will not be charged twice for content that was previously paid for, but could not be downloaded prior to expiration of the subscription and is downloaded after expiration, thus improving reliability of the system.

Regarding Claim 17,

Aura as modified by Jamtgaard, Buhle, and Laraki discloses the method of claim 16, in addition, Laraki discloses that determining if the expired device signature is to be rolled over further comprises evaluating at least one of a condition, event, change in an identifier indicating a grouping of the gateway, and a time (Paragraphs 45 and 66).

Regarding Claim 31,

Aura as modified by Jamtgaard and Buhle discloses the server of claim 26, in addition, Aura discloses that determining the at least one level of trust further comprises determining the first level of trust based at least one of a gateway group identifier, a subscription identifier, a user agent, and a security level associated

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with the request from the mobile device (Column 9, line 43 to Column 10, line 27; and Column 13, line 64 to Column 15, line 6);

But may not explicitly disclose using such information to determine if the mobile device identifier is trusted.

Laraki, however, discloses using such information to determine if the mobile device identifier is trusted (Paragraphs 33-37 and 46-72). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the mobile subscription services of Laraki into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to efficiently provide mobile users with access to content based upon subscriptions and affiliations in which a user will not be charged twice for content that was previously paid for, but could not be downloaded prior to expiration of the subscription and is downloaded after expiration, thus improving reliability of the system.

Regarding Claim 34,

Aura as modified by Jamtgaard and Buhle discloses the server of claim 26, in addition, Aura discloses determining if at least one device signature has expired (Column 13, line 64 to Column 15, line 6); but does not explicitly disclose extending a validity period associated with the expired device signature is the expired device signature is to be rolled over.

Laraki, however, discloses determining if at least one device signature has expired and extending a validity period associated with the expired device signature is the expired device signature is to be rolled over (Paragraphs 45 and 66). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the mobile subscription services of Laraki into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to efficiently provide mobile users with access to content based upon subscriptions and affiliations in which a user will not be charged twice for content that was previously paid for, but could not be downloaded prior to expiration of the subscription and is downloaded after expiration, thus improving reliability of the system.

6. Claims 13 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aura in view of Jamtgaard and Buhle, further in view of Kindberg (U.S. Patent Application Publication 2003/0061515).

Regarding Claim 13,

Aura as modified by Jamtgaard and Buhle does not explicitly disclose including a device signature in a munged URL.

Kindberg, however, discloses including a device signature in a munged URL (Paragraphs 39 and 43-50). It would have been obvious to one of ordinary skill in the art at the time of applicant's

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invention to incorporate the capability-enabled URL of Kindberg into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to provide a simple mechanism by which a client can prove authorized access to resources via use of a modified URL including a signature corresponding to a particular capability.

Regarding Claim 39,

Aura as modified by Jamtgaard and Buhle does not explicitly disclose providing a signature to the mobile device through a munged URL.

Kindberg, however, discloses providing a signature to the mobile device through a munged URL (Paragraphs 39 and 43-50). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability-enabled URL of Kindberg into the mobile authentication system of Aura as modified by Jamtgaard and Buhle in order to provide a simple mechanism by which a client can prove authorized access to resources via use of a modified URL including a signature corresponding to a particular capability.

7. Claims 19 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aura in view of Jamtgaard, Buhle, and Wilf, further in view of Laraki.

Regarding Claim 19,

Aura as modified by Jamtgaard, Buhle, and Wilf does not explicitly disclose providing the mobile device identifier based on at least one of a MIN, an ESN, and an application serial number.

Laraki, however, discloses providing the mobile device identifier based on at least one of a MIN, an ESN, and an application serial number (Paragraph 53). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the mobile subscription services of Laraki into the mobile authentication system of Aura as modified by Jamtgaard, Buhle, and Wilf in order to efficiently provide mobile users with access to content based upon subscriptions and affiliations in which a user will not be charged twice for content that was previously paid for, but could not be downloaded prior to expiration of the subscription and is downloaded after expiration, thus improving reliability of the system.

Regarding Claim 23,

Aura as modified by Jamtgaard, Buhle, and Wilf discloses the client of claim 18, in addition, Aura discloses data in the form of at least one device signature (Column 5, line 58 to Column 6, line 13; and Column 7, line 42 to Column 8, line 23); but may not explicitly disclose that sending the request further comprises sending the request to a carrier gateway, wherein the carrier gateway is configured to perform actions comprising: modifying the

request to include at least one of a subscription identifier associated with the mobile device and a gateway identifier; forwarding the modified request to the server; receiving data from the server; and forwarding the data to the mobile device.

Laraki, however, discloses that sending the request further comprises sending the request to a carrier gateway, wherein the carrier gateway is configured to perform actions comprising: modifying the request to include at least one of a subscription identifier associated with the mobile device and a gateway identifier; forwarding the modified request to the server; receiving data from the server; and forwarding the data to the mobile device (Paragraphs 33-37 and 46-48). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the mobile subscription services of Laraki into the mobile authentication system of Aura as modified by Jamtgaard, Buhle, and Wilf in order to efficiently provide mobile users with access to content based upon subscriptions and affiliations in which a user will not be charged twice for content that was previously paid for, but could not be downloaded prior to expiration of the subscription and is downloaded after expiration, thus improving reliability of the system.

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8. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aura in view of Jamtgaard, Buhle, and Wilf, further in view of Kindberg.

Aura as modified by Jamtgaard, Buhle, and Wilf does not explicitly disclose receiving a munged URL associated with at least one device signature.

Kindberg, however, discloses receiving a munged URL associated with at least one device signature (Paragraphs 39 and 43-50). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the capability-enabled URL of Kindberg into the mobile authentication system of Aura as modified by Jamtgaard, Buhle, and Wilf in order to provide a simple mechanism by which a client can prove authorized access to resources via use of a modified URL including a signature corresponding to a particular capability.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory

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action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEFFREY D. POPHAM whose telephone number is (571)272-7215. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571)272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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